

## EAST Search History

| Ref # | Hits | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp          |
|-------|------|---|------------------------------|------------------|---------|---------------------|
| L2    | 1    | ("20060193294").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2008/08/04<br>09:36 |
| L4    | 0    | ("2and(cod\$3orcodificationorencod\$3orencodification)").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2008/08/04<br>09:40 |
| L5    | 1    | 2 and (cod\$3 or codification or encod\$3 or encodification)  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>09:40 |
| L6    | 1    | 2 and (cod\$3 or codification or encod\$3 or encodification) and space  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>09:59 |
| L7    | 1    | 2 and (cod\$3 or codification or encod\$3 or encodification) and space and spatial  | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>10:22 |
| L8    | 1    | 2 and (cod\$3 or codification or encod\$3 or encodification) and space and spatial and data   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>10:28 |
| L9    | 0    | 2 and (cod\$3 or codification or encod\$3 or encodification) and space and spatial and data and (packet or frame)   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>10:28 |
| L12   | 0    | 2 and (cod\$3 or codification or encod\$3 or encodification) and space and spatial and data and ack   | US-PGPUB;<br>USPAT;<br>USOCR | OR               | ON      | 2008/08/04<br>10:48 |
| L15   | 32   | (US-20070189242-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20050163238-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-6804492-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ | US-PGPUB;<br>USPAT           | OR               | ON      | 2008/08/04<br>10:53 |

|     |        |   |                              |    |    |                     |
|-----|--------|---|------------------------------|----|----|---------------------|
|     |        | or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did.  |                              |    |    |                     |
| L16 | 41     | (US-20070189242-\$ or US-20080144493-\$ or US-20050078674-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20060274737-\$ or US-20050180415-\$ or US-20050163238-\$ or US-20050018784-\$ or US-20030219019-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20050152397-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-7133380-\$ or US-6804492-\$ or US-6690645-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did. | US-PGPUB;<br>USPAT           | OR | ON | 2008/08/04<br>10:55 |
| L17 | 41     | L16 and (tim\$3 or schedule)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/08/04<br>10:55 |
| L19 | 5      | (detect\$3 with fluctuat\$3) and (restrict\$3 with packet)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/04<br>10:55 |
| L21 | 106427 | "370"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/04<br>10:55 |
| L22 | 66     | fluctuat\$3 and (((restrict\$3 or block) with packet) same threshold)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/04<br>10:55 |
| L23 | 46     | L21 and L22   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/04<br>10:55 |
| L25 | 1      | L21 and L22 and volt\$3 and current and header  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/04<br>10:56 |

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|-----|--------|--|------------------------------|----|-----|---------------------|
| L27 | 116    | ((fad\$3 or fluctuat\$3) with error) and ((reduc\$4 or decreas\$3 or less \$5) with (re-transmi\$5 or retran\$5)) and (ofdm or ofdma or (orthogonal adj frequency adj division multiplexing) or (orthogonal adj frequency adj division adj multiple adj access))                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>10:57 |
| L28 | 106427 | "370"/\$.cds.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>10:57 |
| L29 | 2730   | 375/260.cds.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>10:57 |
| L30 | 76     | L27 and (L28 or L29)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>10:57 |
| L31 | 56     | L30 and ((restrict\$3 or block or halt or pause) with (packet or transmi\$5))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>10:57 |
| L33 | 11     | (US-20070189242-\$ or US-20040190657-\$ or US-20050075073-\$ or US-20040127223-\$ or US-20040121827-\$ or US-20040120274-\$ or US-20040095907-\$ or US-20040037258-\$ or US-20030053454-\$ or US-20030035491-\$ or US-20030203721-\$).did.   | US-PGPUB                     | OR | ON  | 2008/08/04<br>10:58 |
| L35 | 1      | ("20020071395").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/08/04<br>10:58 |
| L36 | 13     | (US-20070189242-\$ or US-20040190657-\$ or US-20050075073-\$ or US-20040127223-\$ or US-20040121827-\$ or US-20040120274-\$ or US-20040095907-\$ or US-20040037258-\$ or US-20030053454-\$ or US-20030035491-\$ or US-20030203721-\$ or US-20060193294-\$ or US-20020071395-\$).did. | US-PGPUB                     | OR | ON  | 2008/08/04<br>11:00 |
| L37 | 3      | 36 and ack and (fluctuat\$3 or fad \$3 or interfer\$4)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>11:01 |
| L38 | 2      | 36 and ack and (fluctuat\$3 or fad \$3 or interfer\$4) and schedul\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/08/04<br>11:02 |

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|-----|--------|---|------------------------------|----|-----|---------------------|
| S2  | 5      | (detect\$3 with fluctuat\$3) and (restrict\$3 with packet)                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:10 |
| S4  | 14067  | (detect\$3 same (fluctuat\$3 or transmi\$5)) and ((restrict\$3 or block) with packet) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:13 |
| S5  | 1176   | fluctuat\$3 and ((restrict\$3 or block) with packet)                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:15 |
| S6  | 106149 | "370"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:15 |
| S7  | 557    | S5 and S6   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:15 |
| S8  | 633    | fluctuat\$3 and ((restrict\$3 or block) with packet) and threshold                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:20 |
| S9  | 1      | ("20070189242").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/28<br>15:34 |
| S11 | 1      | ("20070121750").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/28<br>15:36 |
| S12 | 1      | ("20070259623").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/28<br>15:38 |
| S13 | 633    | fluctuat\$3 and ((restrict\$3 or block) with packet) and threshold                    | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:41 |
| S14 | 66     | fluctuat\$3 and ((restrict\$3 or block) with packet) same threshold                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:43 |
| S15 | 66     | fluctuat\$3 and (((restrict\$3 or block) with packet) same threshold)                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:43 |
| S16 | 46     | S6 and S15  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:44 |
| S17 | 0      | S6 and S15 and (ac adj power) and volt\$3 and current and header                      | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:54 |
| S18 | 0      | S15 and (ac adj power) and volt \$3 and current and header                            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:55 |
| S19 | 0      | S6 and S15 and (ac adj power) and volt\$3 and current                                 | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:55 |
| S20 | 1      | S6 and S15 and volt\$3 and current  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/28<br>15:55 |

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|-----|--------|--|------------------------------|----|----|---------------------|
| S21 | 1      | S6 and S15 and volt\$3 and current and header  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>15:57 |
| S22 | 409427 | (volt\$3 or current or power) same (header or frame)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:11 |
| S23 | 21     | S14 and S22  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:12 |
| S24 | 366    | fluctuat\$3 and (((restrict\$3 or block) with packet) same (threshold or level or peak or value))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:22 |
| S25 | 136    | S24 and S22  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:24 |
| S26 | 2711   | 375/260.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:25 |
| S27 | 80     | S24 and S22 and (S26 or S6)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>16:26 |
| S28 | 40093  | fluctuat\$3 and (((restrict\$3 or block or stop or halt or pause) with packet or transmi\$5) same (threshold or level or peak or value)) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:41 |
| S29 | 4950   | S28 and S22  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:44 |
| S30 | 709    | S28 and S22 and (S26 or S6)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:44 |
| S31 | 2711   | 375/260.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:52 |
| S32 | 5526   | 370/389.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:53 |
| S33 | 1089   | 370/394.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:53 |
| S34 | 5039   | 370/338.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:54 |
| S35 | 81     | S30 and (S31 or S32 or S33 or S34)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:54 |
| S36 | 37     | S30 and (S31 or S32 or S33 or S34) and ((detect\$3 or determin\$5 or evaluat\$3) with (error or fault))                                  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/28<br>17:59 |

|     |        |   |                        |    |     |                  |
|-----|--------|---|------------------------|----|-----|------------------|
| S37 | 116    | ((fad\$3 or fluctuat\$3) with error) and ((reduc\$4 or deas\$3 or less \$5) with (re-transmi\$5 or retran\$5)) and (ofdm or ofdma or (orthogonal adj frequency adj division multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:30 |
| S38 | 106255 | "370"/\$.cds.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:32 |
| S39 | 2719   | 375/260.cds.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:32 |
| S40 | 76     | S37 and (S38 or S39)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:32 |
| S41 | 56     | S40 and ((restrict\$3 or block or halt or pause) with (packet or transmi\$5))   | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:37 |
| S42 | 0      | ("5andspatial").PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 13:53 |
| S43 | 13     | S41 and spatial   | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:53 |
| S44 | 3      | S41 and (spatial adj multiplex\$3)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 13:54 |
| S45 | 20     | (spatial adj multiplex\$3) and (fewer adj antenn\$3)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 14:17 |
| S46 | 6      | (spatial adj multiplex\$3) and (fewer adj antenn\$3) and (S38 or S39)   | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 14:18 |
| S48 | 1      | ("20050058151").PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 15:05 |
| S49 | 0      | ("(noadj(retran\$5orre-transmi\$5))andspatial").PN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/07/29 16:15 |
| S50 | 65     | (no adj (retran\$5 or re-transmi\$5)) and spatial   | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 16:16 |
| S51 | 13     | (no adj (retran\$5 or re-transmi\$5)) and spatial and (S38 or S39)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 16:16 |
| S52 | 201    | (no adj (retran\$5 or re-transmi\$5 or transmi\$5)) and spatial and (S38 or S39)  | US-PGPUB; USPAT; USOCR | OR | ON  | 2008/07/29 16:17 |

|     |        |  |                              |    |    |                     |
|-----|--------|--|------------------------------|----|----|---------------------|
| S53 | 10     | ((stop\$1 or no) with transmi\$5 with fluctuat\$3) and (error with fad\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/29<br>16:52 |
| S54 | 175    | ((stop\$1 or no) with transmi\$5 with (fluctuat\$3 or interfer\$4)) and (error with fad\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:56 |
| S55 | 1725   | 455/63.1.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:57 |
| S56 | 106255 | "370"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:58 |
| S57 | 2719   | 375/260.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:58 |
| S58 | 78     | S54 and (S56 or S55 or S57)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:58 |
| S59 | 19     | S54 and (S56 or S55 or S57) and spatial  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>12:59 |
| S60 | 40     | S54 and (S56 or S55 or S57) and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access))            | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>13:01 |
| S61 | 7      | S54 and samsung.as.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>13:37 |
| S62 | 61818  | packet with no\$1 transmi\$5 with fluctuat\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:21 |
| S63 | 146779 | packet with no\$1 transmi\$5 with (fluctuat\$3 or interfer\$4)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:22 |
| S64 | 1267   | S63 and (photoelectric with conver\$4)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:23 |
| S65 | 330    | S63 and (photoelectric with conver\$4) and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:27 |
| S66 | 3      | S65 and (S56 or S55 or S57)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:29 |
| S67 | 251    | packet with no\$1 with transmi\$5 with (fluctuat\$3 or interfer\$4)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:38 |

|     |    |   |                              |    |    |                     |
|-----|----|---|------------------------------|----|----|---------------------|
| S68 | 1  | S67 and (photoelectric with conver \$4)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:38 |
| S69 | 1  | S68 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:39 |
| S70 | 1  | S68 and symbol  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:40 |
| S71 | 51 | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:41 |
| S72 | 20 | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) and wave\$4   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:43 |
| S73 | 44 | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) and (wave\$4 or period)                                     | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:43 |
| S74 | 1  | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) and (wave\$4 or period) and photoelectric                   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:48 |
| S75 | 18 | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) and (wave\$4 or period) and fad\$3                          | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>17:51 |
| S76 | 18 | S67 and (spatial or ofdm or ofdma or (orthogonal adj frequency adj division adj multiplexing) or (orthogonal adj frequency adj division adj multiple adj access)) and (wave\$4 or period) and fad\$3 and (schedule or tim\$3) | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>18:18 |



|     |    |   |                              |    |    |                     |
|-----|----|---|------------------------------|----|----|---------------------|
| S77 | 41 | (US-20070189242-\$ or US-20080144493-\$ or US-20050078674-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20060274737-\$ or US-20050180415-\$ or US-20050163238-\$ or US-20050018784-\$ or US-20030219019-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20050152397-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-7133380-\$ or US-6804492-\$ or US-6690645-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did. | US-PGPUB;<br>USPAT           | OR | ON | 2008/07/30<br>18:26 |
| S78 | 41 | S77 and (tim\$3 or schedule)  | US-PGPUB;<br>USPAT           | OR | ON | 2008/07/30<br>18:27 |
| S79 | 20 | S77 and wave\$4   | US-PGPUB;<br>USPAT           | OR | ON | 2008/07/30<br>18:27 |
| S80 | 32 | S77 and fad\$3  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>18:31 |
| S81 | 9  | S77 and (not (fad\$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>18:34 |
| S82 | 0  | S77 and (not (power or load or output))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/07/30<br>18:42 |

|     |    |  |                              |    |     |                     |
|-----|----|--|------------------------------|----|-----|---------------------|
| S83 | 32 | (US-20070189242-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20050163238-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-6804492-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did. | US-PGPUB;<br>USPAT           | OR | ON  | 2008/07/30<br>18:44 |
| S84 | 13 | S83 and (not (error with detect \$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/30<br>18:46 |
| S85 | 0  | S83 and (not (tim\$3 or schedul \$3))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/30<br>19:02 |
| S86 | 0  | ("200400190657").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>10:02 |
| S87 | 1  | ("20040190657").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>10:02 |
| S88 | 0  | ("2005004376").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>10:46 |
| S89 | 12 | (US-20070189242-\$ or US-20060114813-\$ or US-20060250935-\$ or US-20050163082-\$ or US-20040208138-\$ or US-20040037258-\$).did. or (US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7054296-\$ or US-5818813-\$ or US-7031336-\$).did.   | US-PGPUB;<br>USPAT           | OR | ON  | 2008/07/31<br>10:49 |
| S90 | 10 | S89 and (not (mimo or (multiple adj input adj multiple adj output) or (multiple-input-multiple-output)))   | US-PGPUB;<br>USPAT           | OR | ON  | 2008/07/31<br>10:51 |

|     |    |  |                              |    |     |                     |
|-----|----|--|------------------------------|----|-----|---------------------|
| S91 | 32 | (US-20070189242-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20050163238-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-6804492-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did. | US-PGPUB;<br>USPAT           | OR | ON  | 2008/07/31<br>10:59 |
| S92 | 25 | S91 and (not (mimo or (multiple adj input adj multiple adj output) or (multiple-input-multiple-output)))   | US-PGPUB;<br>USOCR           | OR | ON  | 2008/07/31<br>10:59 |
| S93 | 19 | S91 and (not (mimo or (multiple adj input adj multiple adj output) or (multiple-input-multiple-output) or spatial))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/31<br>11:01 |
| S94 | 13 | S91 and (not S93)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2008/07/31<br>11:04 |
| S95 | 1  | ("20040190657").FN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>11:11 |
| S96 | 1  | ("20040037258").FN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>11:17 |
| S97 | 1  | ("20030203721").FN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/07/31<br>11:17 |

|      |      |  |          |    |    |                     |
|------|------|--|----------|----|----|---------------------|
| S98  | 11   | (US-20070189242-\$ or US-20040190657-\$ or US-20050075073-\$ or US-20040127223-\$ or US-20040121827-\$ or US-20040120274-\$ or US-20040095907-\$ or US-20040037258-\$ or US-20030053454-\$ or US-20030035491-\$ or US-20030203721-\$).did. | US-PGPUB | OR | ON | 2008/07/31<br>16:59 |
| S99  | 0    | S98 and (not (wave\$4 or volt\$3 or current or gain))  | US-PGPUB | OR | ON | 2008/07/31<br>17:01 |
| S100 | 1    | S98 and (not (wave\$4 or volt\$3 or current))  | US-PGPUB | OR | ON | 2008/07/31<br>17:07 |
| S101 | 1    | S98 and (not (wave\$4 or volt\$3 or current or amper\$3))  | US-PGPUB | OR | ON | 2008/07/31<br>17:11 |
| S102 | 10   | S98 and (wave\$4 or volt\$3 or current or amper\$3 or power)   | US-PGPUB | OR | ON | 2008/07/31<br>17:15 |
| S103 | 9    | S98 and (volt\$3 or current or amper\$3)   | US-PGPUB | OR | ON | 2008/07/31<br>17:19 |
| S104 | 7    | S98 and (volt\$3 or current or amper\$3) and spatial   | US-PGPUB | OR | ON | 2008/07/31<br>17:37 |
| S105 | 2    | S98 and (volt\$3 or amper\$3) and spatial  | US-PGPUB | OR | ON | 2008/07/31<br>17:43 |
| S106 | 6    | S98 and (volt\$3 or current or amper\$3) and spatial and (packet or packetization or packet\$3)  | US-PGPUB | OR | ON | 2008/07/31<br>18:09 |
| S107 | 11   | (US-20070189242-\$ or US-20040190657-\$ or US-20050075073-\$ or US-20040127223-\$ or US-20040121827-\$ or US-20040120274-\$ or US-20040095907-\$ or US-20040037258-\$ or US-20030053454-\$ or US-20030035491-\$ or US-20030203721-\$).did. | US-PGPUB | OR | ON | 2008/08/01<br>10:39 |
| S108 | 3    | S107 and fluctuat\$3 and ((volt\$3 or current) and (power with detect \$3))  | US-PGPUB | OR | ON | 2008/08/01<br>10:39 |
| S109 | 6574 | fluctuat\$3 and ((volt\$3 or current) and (power with detect\$3))  | US-PGPUB | OR | ON | 2008/08/01<br>10:47 |
| S110 | 7    | S109 and 370/338 ccls.   | US-PGPUB | OR | ON | 2008/08/01<br>10:47 |
| S111 | 3914 | fluctuat\$3 and ((volt\$3 or current) same (power with detect\$3))   | US-PGPUB | OR | ON | 2008/08/01<br>10:50 |
| S112 | 4    | S111 and 370/338 ccls.   | US-PGPUB | OR | ON | 2008/08/01<br>10:50 |
| S113 | 13   | S111 and ("370"/\$ ccls.) and packet   | US-PGPUB | OR | ON | 2008/08/01<br>10:55 |

|      |    |   |                              |    |    |                  |
|------|----|---|------------------------------|----|----|------------------|
| S114 | 1  | S111 and ("370"/\$.ccls.) and packet and mimo   | US-PGPUB                     | OR | ON | 2008/08/01 10:57 |
| S115 | 6  | S111 and ("370"/\$.ccls.) and packet and spatial  | US-PGPUB                     | OR | ON | 2008/08/01 10:57 |
| S116 | 1  | S111 and packet and spatial and mimo  | US-PGPUB                     | OR | ON | 2008/08/01 11:08 |
| S117 | 37 | S111 and packet and spatial and discharge   | US-PGPUB                     | OR | ON | 2008/08/01 11:10 |
| S118 | 1  | S111 and packet and spatial and discharge and ("370"/\$.ccls.)  | US-PGPUB                     | OR | ON | 2008/08/01 11:10 |
| S119 | 0  | S111 and packet and spatial and discharge and ("455"/\$.ccls.)  | US-PGPUB                     | OR | ON | 2008/08/01 11:11 |
| S120 | 3  | S109 and 370/338.ccls. and fad\$3   | US-PGPUB                     | OR | ON | 2008/08/01 11:52 |
| S121 | 5  | S109 and 370/338.ccls. and interfe\$4   | US-PGPUB                     | OR | ON | 2008/08/01 11:53 |
| S122 | 12 | (US-20070189242-\$ or US-20040190657-\$ or US-20050075073-\$ or US-20040127223-\$ or US-20040121827-\$ or US-20040120274-\$ or US-20040095907-\$ or US-20040037258-\$ or US-20030053454-\$ or US-20030035491-\$ or US-20030203721-\$ or US-20050169185-\$).did.   | US-PGPUB                     | OR | ON | 2008/08/01 13:54 |
| S123 | 4  | S122 and (output adj signal)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2008/08/01 13:54 |
| S124 | 32 | (US-20070189242-\$ or US-20030040274-\$ or US-20020188749-\$ or US-20050163238-\$ or US-20030053454-\$ or US-20060114813-\$ or US-20040095907-\$ or US-20050058151-\$ or US-20040121827-\$ or US-20060250935-\$ or US-20040127223-\$ or US-20050163082-\$ or US-20050075073-\$ or US-20040208138-\$ or US-20040120274-\$ or US-20030035491-\$ or US-20040037258-\$ or US-20040071202-\$).did. or (US-6804492-\$ or US-6052594-\$ or US-5553316-\$ or US-7349483-\$ or US-7319659-\$ or US-6950632-\$ or US-7359428-\$ or US-7164696-\$ or US-7145935-\$ or US-7054296-\$ or US-6922388-\$ | US-PGPUB;<br>USPAT           | OR | ON | 2008/08/01 14:33 |

|      |    |  |                 |    |    |                  |
|------|----|--|-----------------|----|----|------------------|
|      |    | or US-6847678-\$ or US-5818813-\$ or US-7031336-\$).did.   |                 |    |    |                  |
| S125 | 1  | S124 and (detect\$3 with change with output)   | US-PGPUB; USPAT | OR | ON | 2008/08/01 14:33 |
| S126 | 12 | S124 and (detect\$3 with output)   | US-PGPUB; USPAT | OR | ON | 2008/08/01 14:33 |
| S127 | 6  | S124 and ((detect\$3 with output) same conver\$4)  | US-PGPUB; USPAT | OR | ON | 2008/08/01 14:35 |
| S128 | 10 | S124 and (output with (interfer\$4 or fluctuat\$3))  | US-PGPUB; USPAT | OR | ON | 2008/08/01 14:45 |
| S129 | 10 | S124 and (output with (interfer\$4 or fluctuat\$3)) and (tim\$3 with (interfer\$4 or fluctuat\$3))             | US-PGPUB; USPAT | OR | ON | 2008/08/01 16:03 |
| S130 | 10 | S124 and (output with (interfer\$4 or fluctuat\$3)) and ((tim\$3 or period) with (interfer\$4 or fluctuat\$3)) | US-PGPUB; USPAT | OR | ON | 2008/08/01 16:04 |

8/ 4/ 2008 11:40:47 AM

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